

0280

#2

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/995,515

DATE: 12/05/2001

TIME: 10:01:39

Input Set : A:\00659Aseq.txt

Output Set: N:\CRF3\11212001\I995515.raw

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3 <110> APPLICANT: Jing, Shuqian
5 <120> TITLE OF INVENTION: Transforming Growth Factor-Beta-Related Molecules and
6   Uses Thereof
8 <130> FILE REFERENCE: 00-659-A
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/995,515
C--> 11 <141> CURRENT FILING DATE: 2001-11-28
13 <150> PRIOR APPLICATION NUMBER: 60/253,476
14 <151> PRIOR FILING DATE: 2000-11-28
16 <160> NUMBER OF SEQ ID NOS: 27
18 <170> SOFTWARE: PatentIn Ver. 2.0
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33           Met Val Leu Pro Ser Tyr Ser Lys Lys Pro Leu
34           1               5               10
36 atc tct aat gtg gag cag ctg atc ctg ggg atc ccg ggc cag aat cgc 160
37 ile ser asn val glu gln leu ile leu gly ile pro gly gln asn arg
38           15               20               25
40 cgg gag ata ggc cat ggc cag gat atc ttt cca gca gag aag ctc tgc 208
41 arg glu ile gly his gly gln asp ile phe pro ala glu lys leu cys
42           30               35               40
44 cat ctg cag gat cgc aag gtg aac ctt cac aga gct gcc tgg ggc gag 256
45 his leu gln asp arg lys val asn leu his arg ala ala trp gly glu
46           45               50               55
48 tgt att gtt gca ccc aag act ctc agc ttc tct tac tgt cag ggg acc 304
49 cys ile val ala pro lys thr leu ser phe ser tyr cys gln gly thr
50 60           65               70               75
52 tgc ccg gcc ctc aac agt gag ctc cgt cat tcc agc ttt gag tgc tat 352
53 cys pro ala leu asn ser glu leu arg his ser ser phe glu cys tyr
54           80               85               90
56 aag agg gca gta cct acc tgt ccc tgg ctc ttc cag acc tgc cgt ccc 400
57 lys arg ala val pro thr cys pro trp leu phe gln thr cys arg pro
58           95               100              105
60 acc atg gtc aga ctc ttc tcc ctg atg gtc cag gat gac gaa cac aag 448
61 thr met val arg leu phe ser leu met val gln asp asp glu his lys
62           110              115              120
64 atg agt gtg cac tat gtg aac act tcc ttg gtg gag aag tgt ggc tgc 496
65 met ser val his tyr val asn thr ser leu val glu lys cys gly cys
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68 tct tga gatacccca agcctctac tggcctcagg gccacctaag tctcaggact 552

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70 140
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86 Gln Leu Ile Leu Gly Ile Pro Gly Gln Asn Arg Arg Glu Ile Gly His
87 20 25 30
89 Gly Gln Asp Ile Phe Pro Ala Glu Lys Leu Cys His Leu Gln Asp Arg
90 35 40 45
92 Lys Val Asn Leu His Arg Ala Ala Trp Gly Glu Cys Ile Val Ala Pro
93 50 55 60
95 Lys Thr Leu Ser Phe Ser Tyr Cys Gln Gly Thr Cys Pro Ala Leu Asn
96 65 70 75 80
98 Ser Glu Leu Arg His Ser Ser Phe Glu Cys Tyr Lys Arg Ala Val Pro
99 85 90 95
101 Thr Cys Pro Trp Leu Phe Gln Thr Cys Arg Pro Thr Met Val Arg Leu
102 100 105 110
104 Phe Ser Leu Met Val Gln Asp Asp Glu His Lys Met Ser Val His Tyr
105 115 120 125
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124 Met Arg Phe Phe Ser Ala Arg Gln His Gly Phe Thr Leu Ile Phe Lys
125 1 5 10 15
127 aag aca aag att cca gcc act gat gtc gct gat gcc agc ctg aat gaa 156
128 Lys Thr Lys Ile Pro Ala Thr Asp Val Ala Asp Ala Ser Leu Asn Glu
129 20 25 30
131 tgt tcc agt acc gaa agg aaa caa gac gta gtg ttg ctg ttc gtg acc 204
132 Cys Ser Ser Thr Glu Arg Lys Gln Asp Val Val Leu Leu Phe Val Thr
133 35 40 45
135 ttg tcc cac aca cag cca cct ctg ttt cac ctg cct tat gtc cag aaa 252
136 Leu Ser His Thr Gln Pro Pro Leu Phe His Leu Pro Tyr Val Gln Lys
137 50 55 60
139 ccc tta atc tct aat gtg gag cag ctg atc ctg ggg atc ccg ggc cag 300

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144 Asn Arg Arg Glu Ile Gly His Gly Gln Asp Ile Phe Pro Ala Glu Lys
145 85 90 95
147 ctc tgc cat ctg cag gat cgc aag gtg aac ctt cac aga gct gcc tgg 396
148 Leu Cys His Leu Gln Asp Arg Lys Val Asn Leu His Arg Ala Ala Trp
149 100 105 110
151 ggc gag tgt att gtt gca ccc aag act ctc agc ttc tct tac tgt cag 444
152 Gly Glu Cys Ile Val Ala Pro Lys Thr Leu Ser Phe Ser Tyr Cys Gln
153 115 120 125
155 ggg acc tgc ccg gcc ctc aac agt gag ctc cgt cat tcc agc ttt gag 492
156 Gly Thr Cys Pro Ala Leu Asn Ser Glu Leu Arg His Ser Ser Phe Glu
157 130 135 140
159 tgc tat aag agg gca gta cct acc tgt ccc tgg ctc ttc cag acc tgc 540
160 Cys Tyr Lys Arg Ala Val Pro Thr Cys Pro Trp Leu Phe Gln Thr Cys
161 145 150 155 160
163 cgt ccc acc atg gtc aga ctc ttc tcc ctg atg gtc cag gat gac gaa 588
164 Arg Pro Thr Met Val Arg Leu Phe Ser Leu Met Val Gln Asp Asp Glu
165 165 170 175
167 cac aag atg agt gtg cac tat gtg aac act tcc ttg gtg gag aag tgt 636
168 His Lys Met Ser Val His Tyr Val Asn Thr Ser Leu Val Glu Lys Cys
169 180 185 190
171 ggc tgc tct tga gataccccaa agcctctac tggcctcagg gccacctaag 688
172 Gly Cys Ser
173 195
175 tctcaggact ttagtagggg gtgggattac ttttcatagc aagtagagct ctttgaagg 748
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192 20 25 30
194 Cys Ser Ser Thr Glu Arg Lys Gln Asp Val Val Leu Leu Phe Val Thr
195 35 40 45
197 Leu Ser His Thr Gln Pro Pro Leu Phe His Leu Pro Tyr Val Gln Lys
198 50 55 60
200 Pro Leu Ile Ser Asn Val Glu Gln Leu Ile Leu Gly Ile Pro Gly Gln
201 65 70 75 80
203 Asn Arg Arg Glu Ile Gly His Gly Gln Asp Ile Phe Pro Ala Glu Lys
204 85 90 95
206 Leu Cys His Leu Gln Asp Arg Lys Val Asn Leu His Arg Ala Ala Trp
207 100 105 110
209 Gly Glu Cys Ile Val Ala Pro Lys Thr Leu Ser Phe Ser Tyr Cys Gln

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215 Cys Tyr Lys Arg Ala Val Pro Thr Cys Pro Trp Leu Phe Gln Thr Cys
216 145      150      155      160
218 Arg Pro Thr Met Val Arg Leu Phe Ser Leu Met Val Gln Asp Asp Glu
219      165      170      175
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229 <211> LENGTH: 214
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238      20      25      30
240 Leu Leu Asp Val Ala Lys Asp Trp Asn Asp Asn Pro Arg Lys Asn Phe
241      35      40      45
243 Gly Leu Phe Leu Glu Ile Leu Val Lys Glu Asp Arg Asp Ser Gly Val
244      50      55      60
246 Asn Phe Gln Pro Glu Asp Thr Cys Ala Arg Leu Arg Cys Ser Leu His
247 65      70      75      80
249 Ala Ser Leu Leu Val Val Thr Leu Asn Pro Asp Gln Cys His Pro Ser
250      85      90      95
252 Arg Lys Arg Arg Ala Ala Ile Pro Val Pro Lys Leu Ser Cys Lys Asn
253      100      105      110
255 Leu Cys His Arg His Gln Leu Phe Ile Asn Phe Arg Asp Leu Gly Trp
256      115      120      125
258 His Lys Trp Ile Ile Ala Pro Lys Gly Phe Met Ala Asn Tyr Cys His
259      130      135      140
261 Gly Glu Cys Pro Phe Ser Leu Thr Ile Ser Leu Asn Ser Ser Asn Tyr
262 145      150      155      160
264 Ala Phe Met Gln Ala Leu Met His Ala Val Asp Pro Glu Ile Pro Gln
265      165      170      175
267 Ala Val Cys Ile Pro Thr Lys Leu Ser Pro Ile Ser Met Leu Tyr Gln
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280 <213> ORGANISM: Homo sapiens
282 <220> FEATURE:

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306 gaagtggcag ctccctggctc attcctgggc tcttggctct gggctcttgg tgcattgtgt 300
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368 ag agg gca gta cct acc tgt ccc tgg ctg ttc cag acc tgc cgt ccc 2068
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VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date